

ABSTRACT OF THE DISCLOSURE

4052705-10304  
A carrier which permits preparation of a catalyst  
possessed of excellent catalytic performance and used for  
5 the production of ethylene oxide, a catalyst obtained by  
using this carrier, endowed with excellent catalytic  
performance, and used for the production of ethylene oxide,  
and a method for the production of ethylene oxide by the use  
of the catalyst are provided. The carrier is obtained by  
10 mixing  $\alpha$ -alumina having an alkali metal content in the range  
of 1 - 70 m.mols/kg ( $\alpha$ -alumina) with an aluminum compound,  
a silicon compound, and an alkali metal compound and  
calcining the produced mixture. The carrier which has an  
aluminum content as reduced to Al in the range of 0 - 3 mols/kg  
15 of carrier, a silicon compound content as reduced to Si in  
the range of 0.01 - 2 mols/kg of carrier, and an alkali metal  
content as reduced to alkali metal in the range of 0.01 -  
2 mols/kg of carrier is used for the deposition of a catalyst  
for use in the production of ethylene oxide.